

**Your lab is smarter when you get reproducible results
from the very first injection**

**ZORBAX Eclipse XDB HPLC columns—
the innovative, single solution for
your separation needs**



A Powerful Series of Innovations

New innovations behind Eclipse XDB LC columns deliver the performance and productivity you need.

When you make ZORBAX Eclipse XDB LC columns your first choice, you will experience the benefits of:

Accurate, reproducible results with symmetrical, sharply resolved peaks across pH 2 to 9—exclusive eXtra Dense Bonding lets you resolve your most difficult separations from the first injection.

Alternative column selectivities within one column family—a wide selection of bonded phases, particle sizes and dimensions that work across a broad pH range.

Improved productivity for fast and ultra-fast high-throughput separations—small particle sizes (1.8 μm and 3.5 μm) for excellent resolution up to 95% faster than traditional columns.

Uniquely superior column lifetimes—made possible by innovative bonding and double end capping.

Dependable chromatography even under high pressures or high flows—a result of our proprietary ZORBAX hard walled 100% silica particles.

These innovations add up to column choices for every application and need.

Quickly Develop Rugged and Reproducible HPLC Methods

Easy, flexible method development for immediate success. Broad selectivity choices with four bonded phases (C18, C8, Cyano and Phenyl) allow method developers to experiment easily with phases and separation conditions.

Successful method development that stays with you for the long term. There is no need to re-develop or re-validate your methods when you start with ZORBAX Eclipse XDB LC columns. From capillary to high throughput, from analytical to prep, Eclipse XDB columns allow you to easily transfer reproducible HPLC methods, eliminating random method development.

Faster, more efficient method development with Rapid Resolution (RR) 3.5 μm and Rapid Resolution High Throughput (RRHT) 1.8 μm columns. These columns give you the speed, resolution, performance and flexibility you need to increase sample throughput with almost any method.

Column Choice vs. Sample Polarity

Very Polar	Polar	Moderately Polar	Non Polar
SB-Aq	Eclipse XDB-C8/C18	Eclipse XDB-C18	Eclipse XDB-C8
Bonus-RP	Eclipse XDB-CN	Eclipse XDB-C8	Eclipse XDB-C18
SB-C8	Eclipse XDB-Phenyl	Eclipse XDB-CN	Eclipse XDB-CN
Eclipse XDB-Phenyl	Eclipse XDB-C18	Eclipse XDB-Phenyl	SB-C8
	SB-C3	SB - all	SB-C18

These recommendations provide rough guidance on choosing a column based on sample type, with the examples we have seen. They are arranged in a general order of preference. Other columns will work in some cases and could provide a better separation, depending on the actual analytes and excipients present in the sample.



Agilent Technologies

Other Benefits of the Eclipse XDB Family of LC Columns

Reduced volume of mobile phase with Eclipse Solvent Saver columns. Less mobile phase and increased signal-to-noise ratio let you perform high-throughput LC/MS without modifying your HPLC system.

The industry and regulatory choice. The powerful range of separation capabilities available in the Eclipse XDB LC columns has made them the industry and regulatory standard, from pharmaceuticals to environmental and chemical, fragrance, food and nutraceuticals.

Unrivaled dependability. Designed with the same quality and reliability as Agilent's HPLC instruments, ZORBAX Eclipse XDB LC columns in combination with the Agilent 1100 Series LC system deliver optimal performance and separation quality to help you get the reproducible results you need.

Intelligent Decisions Backed by Unmatched Technical and Sales Support

- Worldwide technical and sales support—by telephone, internet or in person
- Applications expertise to help you find answers to challenging separation questions
- Industry-leading understanding of lab operations, business processes and regulatory requirements
- LC columns product information and specifications, chromatogram libraries and related materials available any time at www.agilent.com/chem

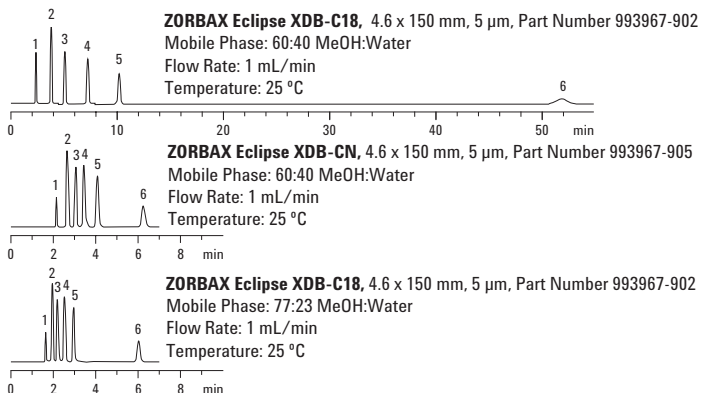
Order Agilent ZORBAX Eclipse XDB columns and supplies for your lab!

For a complete listing of Agilent's ZORBAX Eclipse XDB LC columns, see Agilent's 2005-2006 Essential Chromatography Catalog, pages 553-554, or visit www.agilent.com/chem/supplies

To order, go to www.agilent.com/chem/supplies, speak with your local Agilent representative, or contact an Agilent Authorized Distributor.

Additional Bonded Phases Provide Essential Selectivity Choices

Industry: Environmental

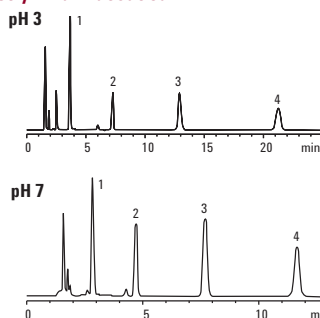


Sample:
Urea Pesticides

- Fenuron
- Monuron
- MonoLinuron
- Diuron
- Linuron
- Pencycuron

Excellent Peak Shape at Different pH's with Eclipse XDB LC Columns

Industry: Pharmaceutical



Tf

1. 1.2
2. 1.1
3. 1.1
4. 1.0

Tf

1. 1.2
2. 1.1
3. 1.0
4. 0.95

Conditions

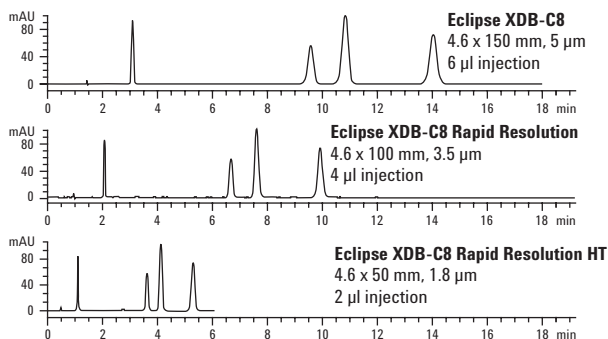
Column: **Eclipse XDB-C8**
4.6 x 150 mm, 5 µm
Temperature: 35 °C
Eluent: 15% ACN
85% 25 mM Phosphate
Flow: 1.0 mL/min

Sample:

1. Cefotaxime
2. Cefoxitin
3. Cefamandole
4. Cephalothin

Reduce Analysis Time by 67% or More with Eclipse XDB Rapid Resolution High Throughput Columns

Industry: Consumer Products



Sunscreens:

1. 2-hydroxy-4-methoxy-benzophenone
2. Padimate-O
3. 2-ethylhexyl trans-4-methoxycinnamate
4. 2-ethylhexyl salicylate

Conditions

Mobile Phase: (85:15) MeOH: water
Flow: 1.0 mL/min.
LC: Agilent 1100
Detection: UV 310 nm

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